

Appl. No. 10/087,142 (Docket 093/005)
Amdt. dated May 15, 2006
Reply to Office Action of February 13, 2006

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

What is claimed as the invention is:

1. – 12. *(Canceled)*
13. *(Currently amended)* A method for obtaining hepatocyte lineage cells, comprising culturing pPS cells in a growth environment that comprises butyrate or an analog of butyrate and also comprises one or more hepatocyte maturation factors that are either:
 - a) an organic solvent selected from dimethyl sulfoxide (DMSO), dimethylacetamide (DMA); hexamethylene bisacetamide, and other polymethylene bisacetamides; or
 - b) a cytokine or hormone selected from glucocorticoids, epidermal growth factor (EGF), insulin, TGF- α , TGF- β , fibroblast growth factor (FGF), hepatocyte growth factor (HGF), IL-1, IL-6, IGF-I, IGF-II, and HBGF-1.
14. – 20. *(Canceled)*
21. *(Previously Presented)* The method of claim 13, wherein the growth environment comprises DMSO.
22. *(Previously Presented)* The method of claim 13, wherein the growth environment comprises a cytokine.
23. *(Previously Presented)* The method of claim 13, wherein the growth environment comprises HGF.
24. *(Previously Presented)* The method of claim 13, wherein the growth environment comprises insulin.
25. *(Previously Presented)* The method of claim 13, wherein the growth environment comprises FGF.

Appl. No. 10/087,142 (Docket 093/005)
Amdt. dated May 15, 2006
Reply to Office Action of February 13, 2006

26. *(Previously Presented)* The method of claim 13, wherein the growth environment comprises dimethylacetamide.
27. *(Previously Presented)* The method of claim 13, wherein the growth environment comprises hexmethylene bisacetamide.
28. *(Previously Presented)* The method of claim 13, wherein the growth environment comprises EGF.